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NOTICE OF ALLOWANCE AND FEE(S) DUE

23552 7590 04/23/2009 MERCHANT & GOULD PC

P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903 EXAMINER

LE, TOAN M

ART UNIT PAPER NUMBER

2863

DATE MAILED: 04/23/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/594,355	07/05/2007	Richard Parfitt	03955.0156USWO	9391			
TITLE OF INVENTION: CORE SAMPLE ORIENTATION							

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/23/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE: shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte	form should be used I correspondence including ad below or directed of	or trans ng the I nerwise	smitting the ISSU atent, advance of in Block 1, by (a	JE FEE and PUBLICAT rders and notification of a) specifying a new corre	TION FEE (if requestion requestion of the contract of the cont	ired). l vill be ; and/o	Blocks 1 through 5 sl mailed to the current or (b) indicating a sepa	hould be completed where correspondence address as trate "FEE ADDRESS" for
maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				No Fer par	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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MERCHANT 6 P.O. BOX 2903 MINNEAPOLIS	& GOULD PC , MN 55402-0903			I h Sta ado tra	ereby certify that th	is Feet	e of Mailing or Trans (s) Transmittal is being fficient postage for firs ISSUE FEE address 71) 273-2885, on the d	mission g deposited with the United it class mail in an envelope above, or being facsimile ate indicated below.
				Г				(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR	3	ATTC	ORNEY DOCKET NO.	CONFIRMATION NO.
10/594,355	07/05/2007			Richard Parfitt		03	3955.0156USWO	9391
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nonprovisional	NO		\$1510	\$300	\$0 \$181		\$1810	07/23/2009
EXAM	INER		ART UNIT	CLASS-SUBCLASS	1			
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CFR 1.363). Change of corresp	ondence address (or Cha	mge of C	Correspondence	(I) the names of up t or agents OR, alternat	o 3 registered pater	nt attor	neys I	
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☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			tion form of a Customer	registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO B	E PRINTED ON	THE PATENT (print or ty	/pe)			
PLEASE NOTE: Uni recordation as set forti	ess an assignee is ident h in 37 CFR 3.11. Com	ified be oletion o	low, no assignee of this form is NO	data will appear on the part of the part o	patent. If an assign assignment.	ice is i	dentified below, the de	ocument has been filed for
(A) NAME OF ASSIG				(B) RESIDENCE: (CIT				
Please check the appropri	iate assignee category or	catego	ries (will not be pr	inted on the patent):	Individual C	orporat	ion or other private gro	oup entity Government
4a. The following fee(s):	are submitted:		41	o. Payment of Fee(s): (Ple	ase first reapply a	ny pre	viously paid issue fee	shown above)
☐ Issue Fee				A check is enclosed.				
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			d)	☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any				
				overpayment, to Dep	osit Account Numb	er	(enclose a	n extra copy of this form).
	s SMALL ENTITY state	ıs. See 3	37 CFR 1.27.	☐ b. Applicant is no lo				
NOTE: The Issue Fee and interest as shown by the	d Publication Fee (if req ecords of the United Sta	uired) w ites Pate	vill not be accepte nt and Trademark	d from anyone other than Office.	the applicant; a reg	istered	attorney or agent; or th	e assignee or other party in
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an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	is required by 37 C islity is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	U.S.C. USPTO rden, sh	122 and 37 CFR O. Time will vary ould be sent to th SEND FEES OR	1.14. This collection is endepending upon the indice Chief Information Office COMPLETED FORMS T	stimated to take 12 stidual case. Any coper, U.S. Patent and O THIS ADDRES	minute ommen Trader S. SEN	s to complete, includin s to on the amount of tin mark Office, U.S. Dep D TO: Commissioner	by the USPTO to process) g gathering, preparing, and ne you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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23552 75	90 04/23/2009		EXAM	UNER
MERCHANT &	GOULD PC	LE, TOAN M		
P.O. BOX 2903		ART UNIT	PAPER NUMBER	
MINNEAPOLIS, I	MN 55402-0903	2863		

DATE MAILED: 04/23/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/594 355 PARFITT, RICHARD Notice of Allowability Examiner Art Unit 2863 TOAN MILE -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 3/16/09. The allowed claim(s) is/are 1,4,6-14,16-22,24,25,27,31 and 34. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date 3. Information Disclosure Statements (PTO/SB/08), 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/16/09 has been entered.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Brian Batzli on 4/17/09

Abstract, line 1, replace "comprises" with -includes-; line 9, replace "comprising" with -including-; lines 3, 7-10, replace "means" with -device-.

Claim 22, line 1, replace the phrase "A method as claimed in claim 18" with the phrase - A method as claimed in claim 20-.

Please cancel claims 29 and 30

Allowable Subject Matter

Claims 1, 4, 6-14, 16-22, 24-25, 27, 31, and 34 are allowed.

Art Unit: 2863

Claims 1, 4, 6-14, 16-22, 24-25, 27, 31, and 34 are allowable over the prior art of record, none of the prior art whether together singularly or in combination to teach the claimed combination as recited. The closest reference "Horizontal Core Acquisition and Orientation for Formation Evaluation", Skopec et al. does not disclose or suggest the improvement of the instant application comprising maintaining a rotational orientation of a core stationary with respect to the rotational orientation of the core orientation device so that the core reflects a measure of the rotational orientation of the core orientation device as cited in claims 1 & 13, or so that upon rotation of the core orientation device a user can position the core in the measured physical orientation for marking as cited in claim 20, or so that for comparing the rotational orientation of the orientation device at a selected time interval to the rotational orientation of the orientation device at any subsequent time and providing an indication of the direction in which the orientation device should be rotated in order to bring the core into a rotational orientation corresponding to the rotational orientation of the core at the selected time as cited in claims 24 & 27, or so that for relating a recorded specific time to the recorded time intervals to obtain an indication of the rotational orientation of the inner tube assembly and consequently the core contained therein at the specific time interval as cited in claim 31; instead Skopec et al. reference teaches using a combination of an Electronic Multishot Instrument (EMI) and scribe knifeinstrument alignment process in determining a rotational orientation of the core and the core orientation device

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue Application/Control Number: 10/594,355

Art Unit: 2863

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to TOAN M. LE whose telephone number is (571)272-2276. The

examiner can normally be reached on Monday through Friday from 9:00 A.M. to 5:30 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated $\,$

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael P. Nghiem/ Primary Examiner, GAU 2863

Toan Le

April 17, 2009